

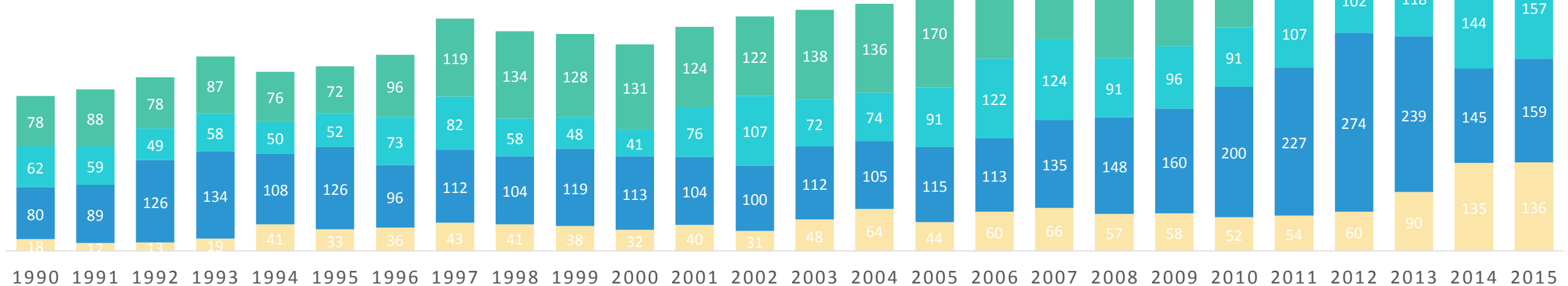


AST Individual Investigator Programs

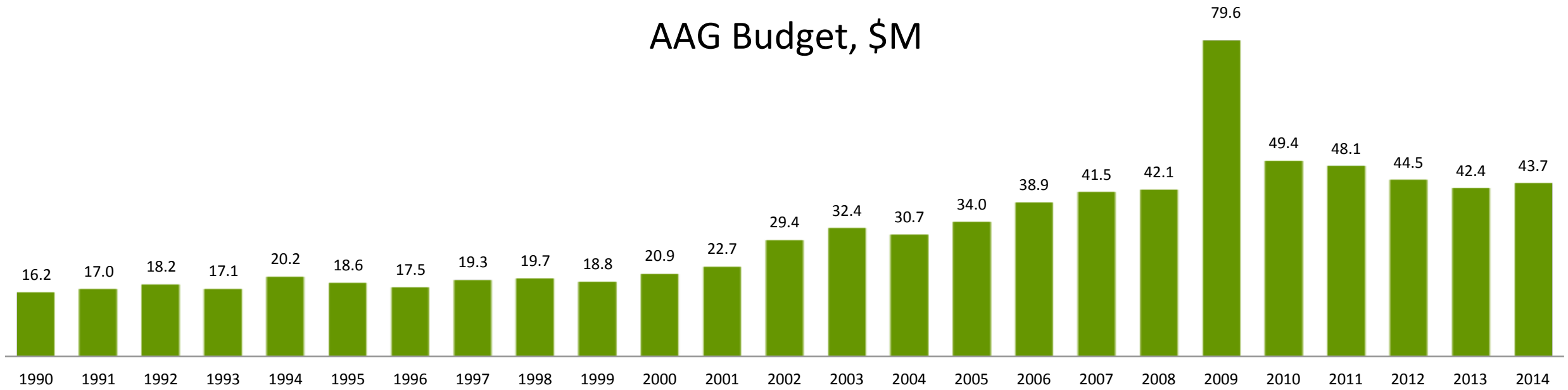
STATISTICS FOR AAAC MEETING, JANUARY 28-29, 2015

DAN EVANS, IIP LEAD (DEVANS@NSF.GOV)

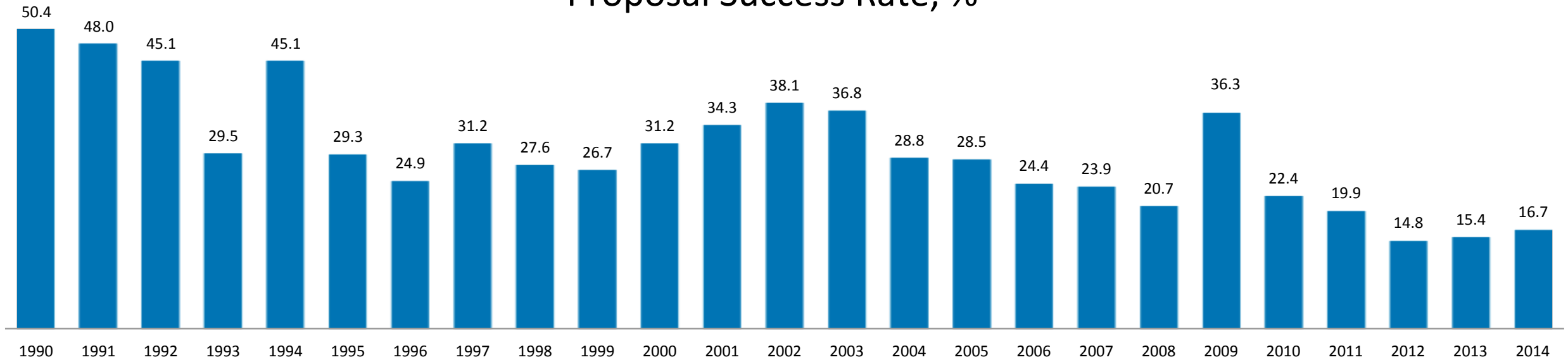
AAG Proposal Pressure



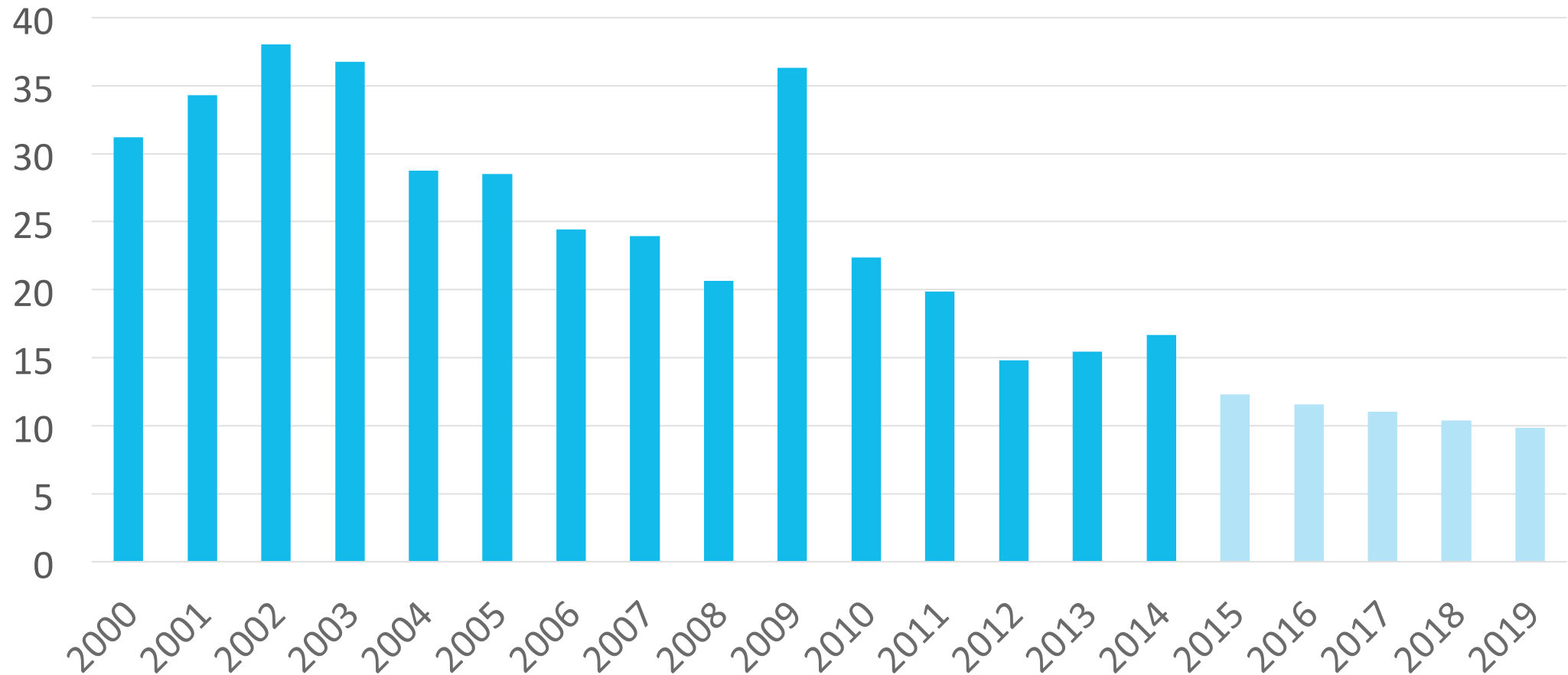
AAG Budget, \$M



Proposal Success Rate, %

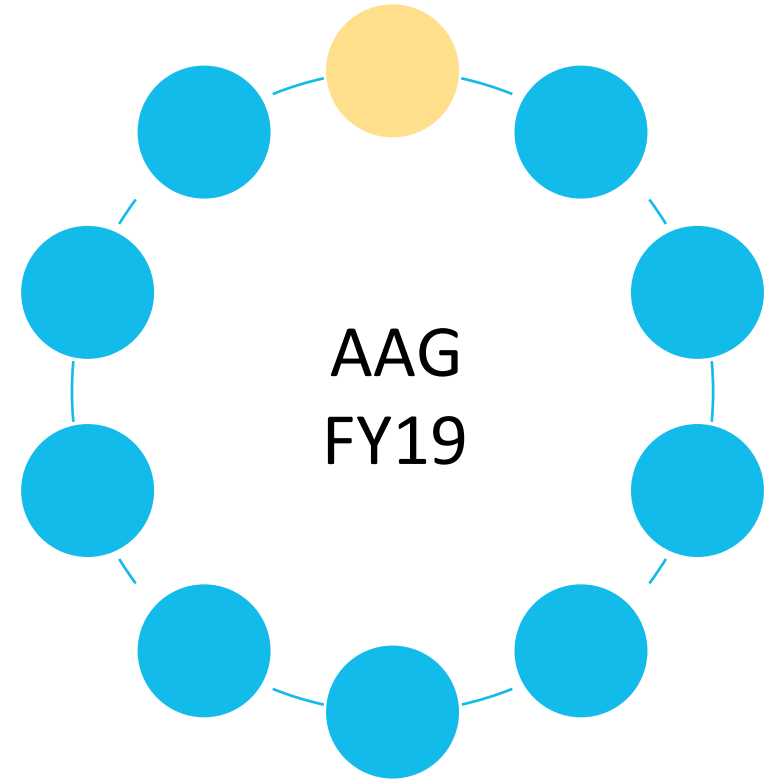
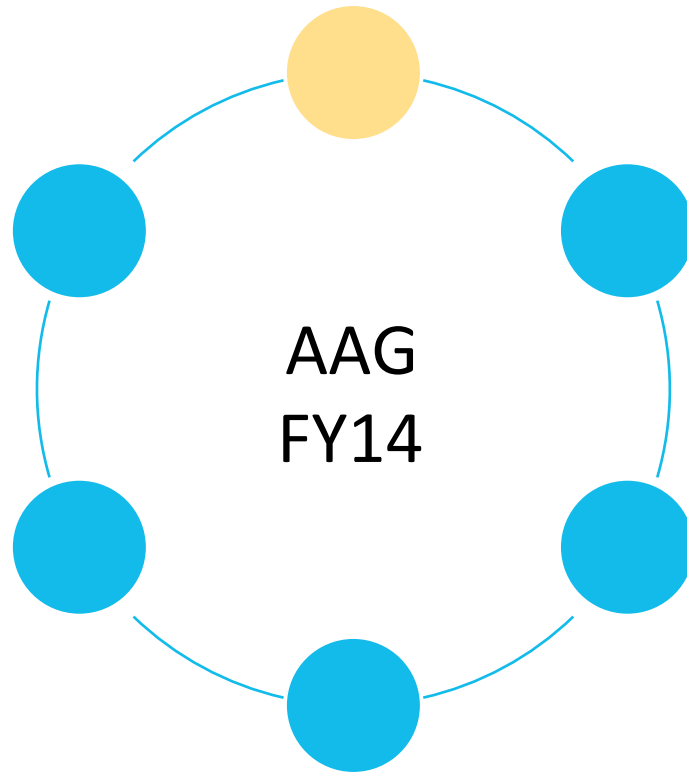
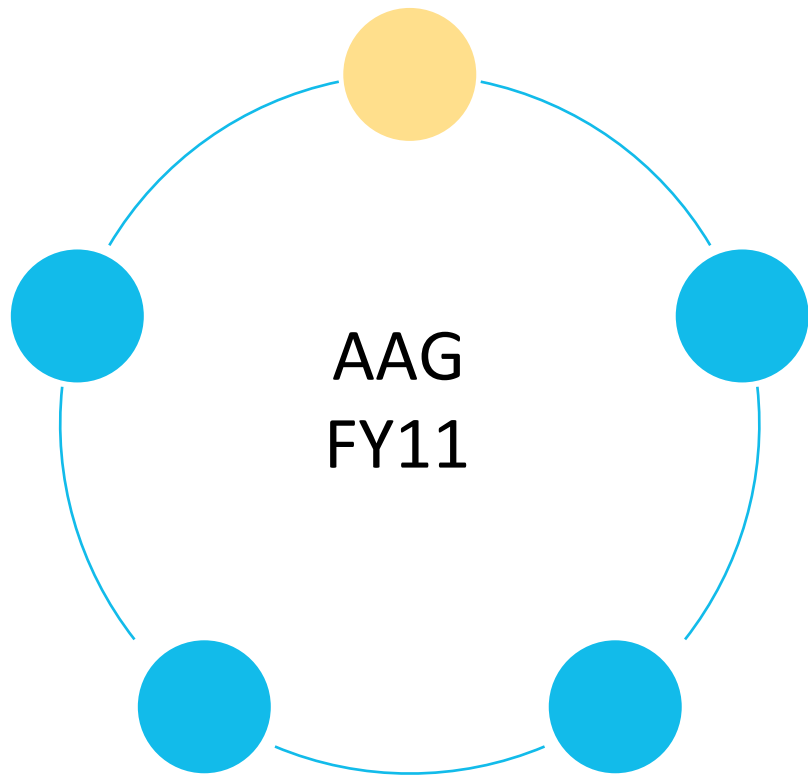


AAG % Future Success Rates in the Absence of Facility Divestment



Assumes 2% rise in total AAG dollar demand per year and J. Ulvestad "AST Portfolio Scenarios" data for budget to FY19.

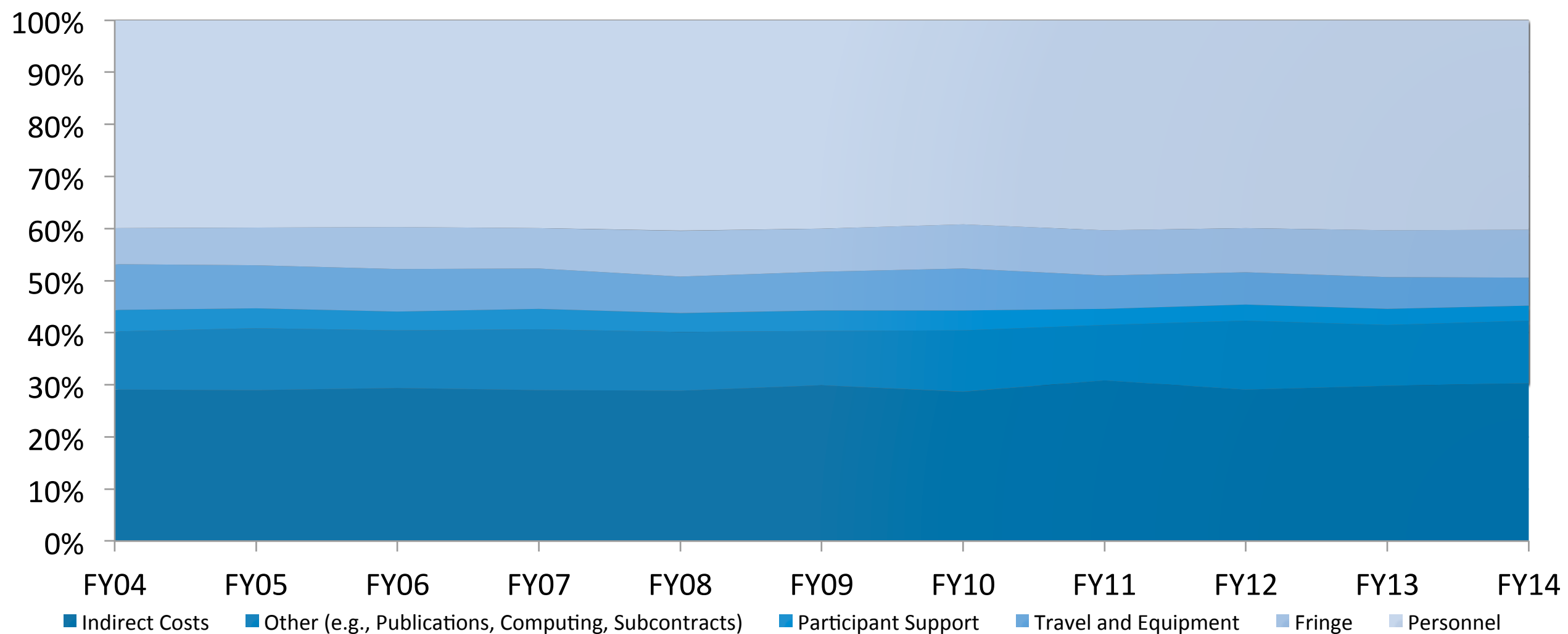
AAG Future Success Rates



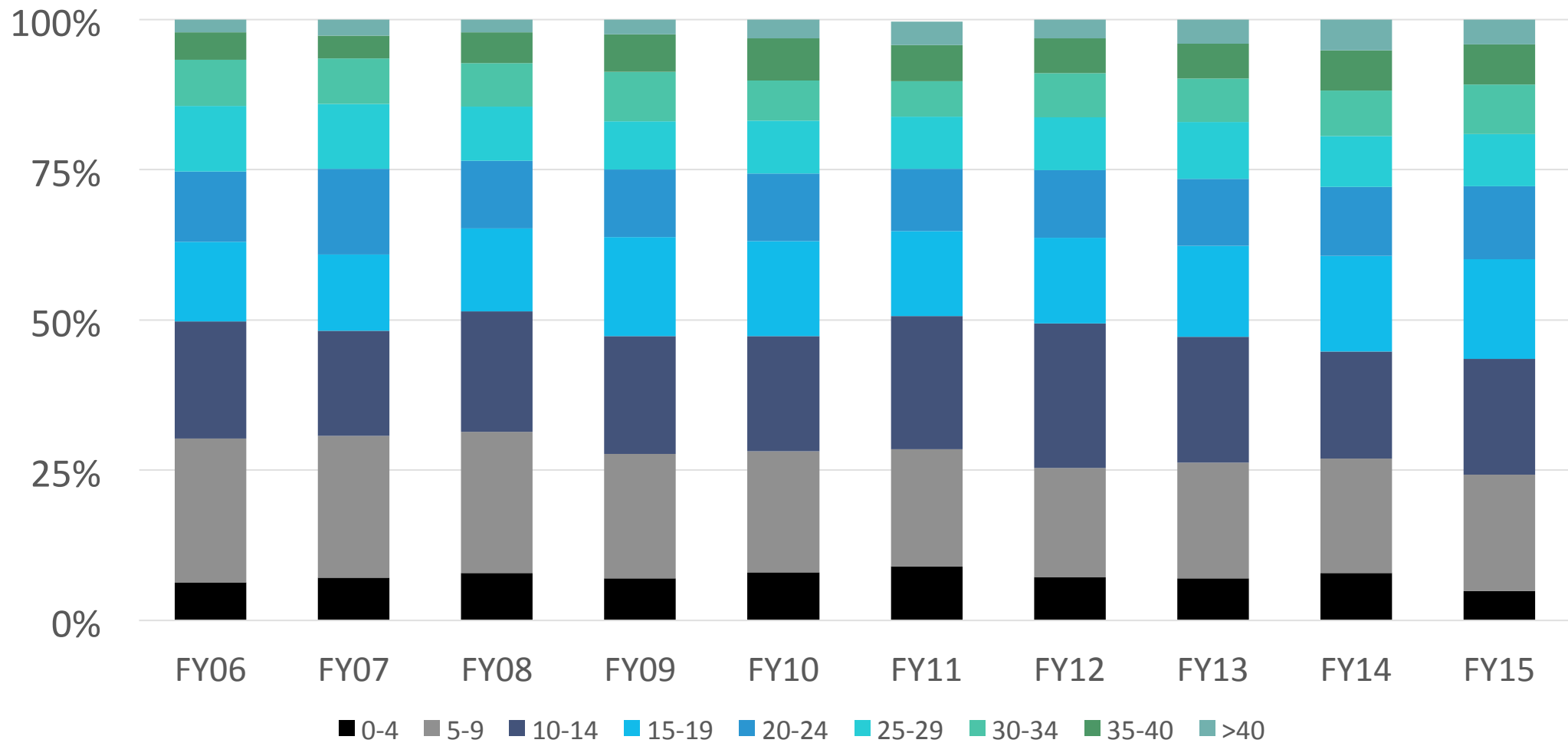


Key AAG Statistics

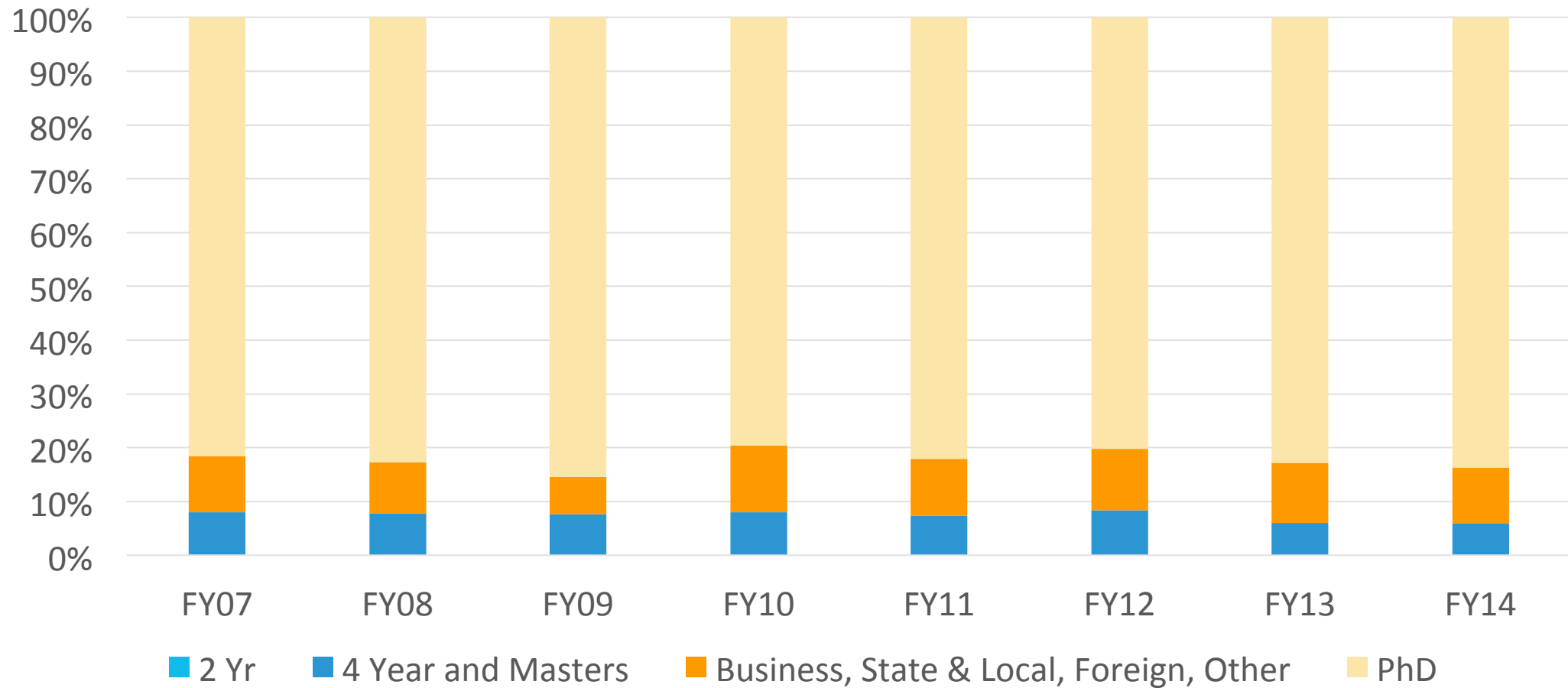
AAG Budget Distributions Remain Steady



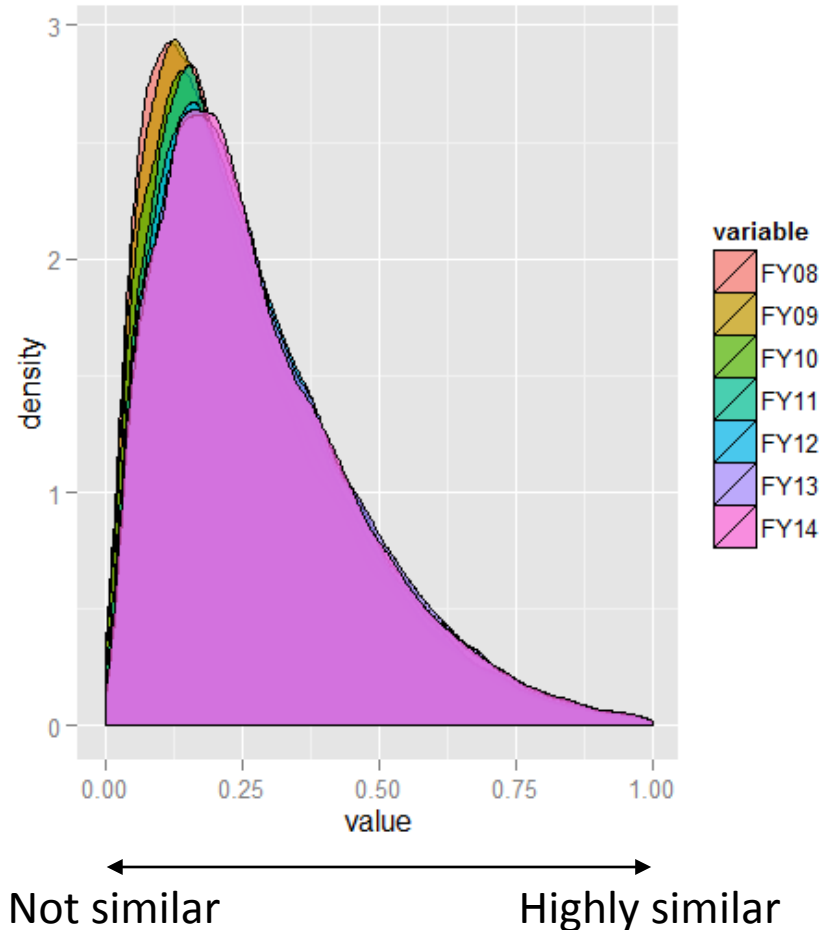
Years Post-PhD of AAG Principal Investigators



Proposals from Different Institution Types – AAG



AAG Repeat Submissions Rising

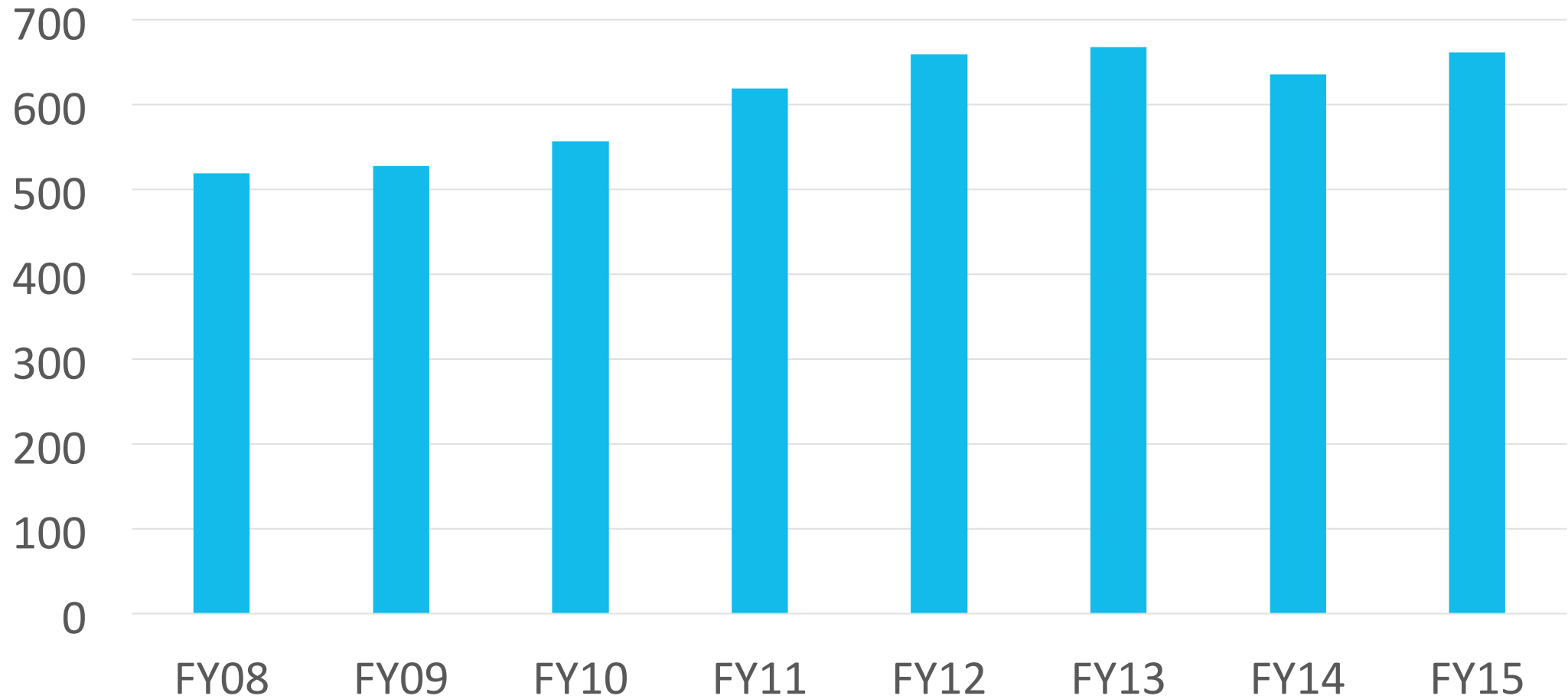


1. Can use document clustering algorithms to compare the similarity of the text of a given proposal with any proposal submitted in the prior year.
2. Uses morelikethis algorithm and Apache solr to generate vector map of common words in a proposal and compare them with database.
3. Result is that AAG PIs are recycling proposals more often as time goes on.

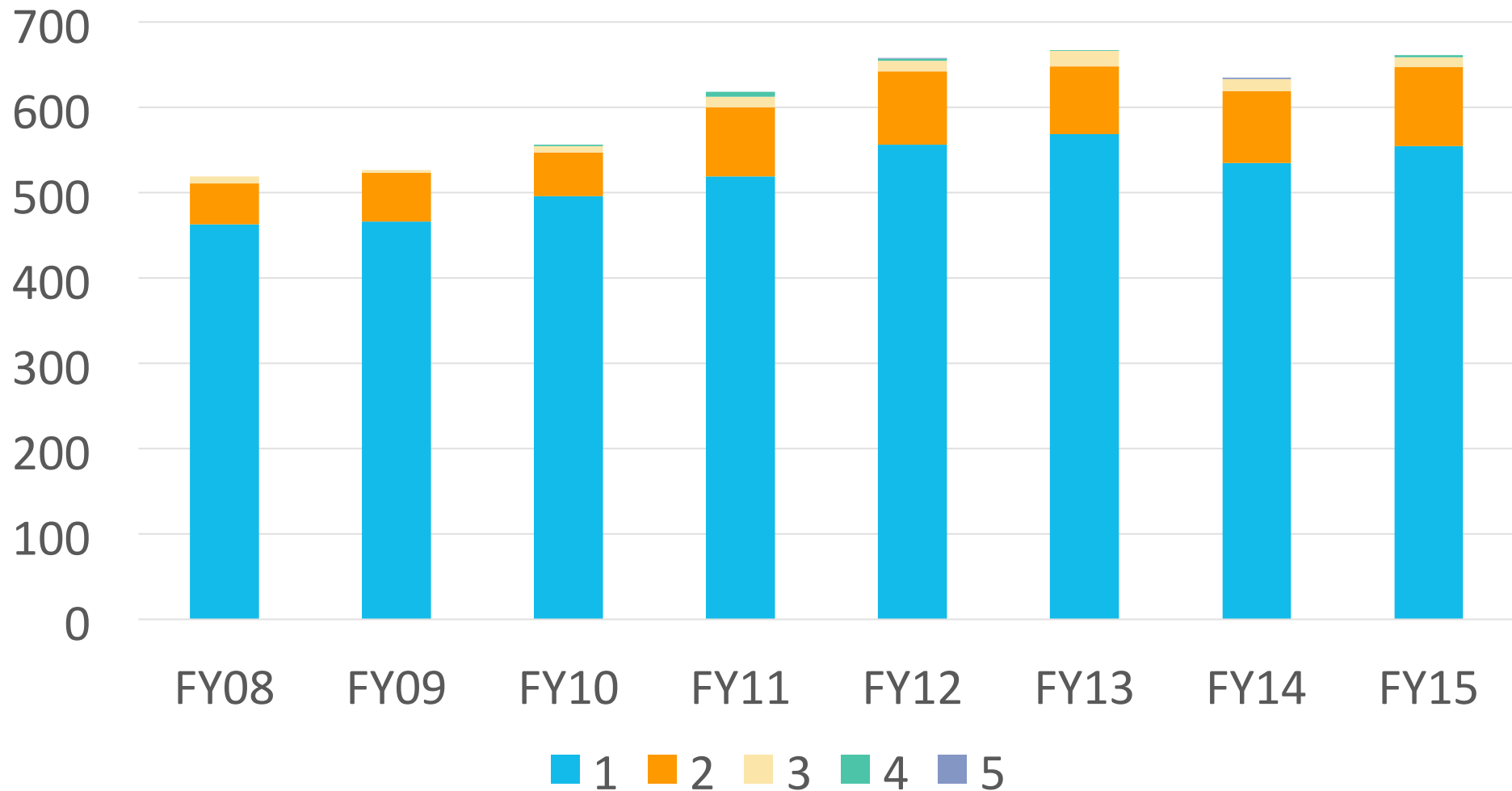


AAG Multiple Submission Statistics

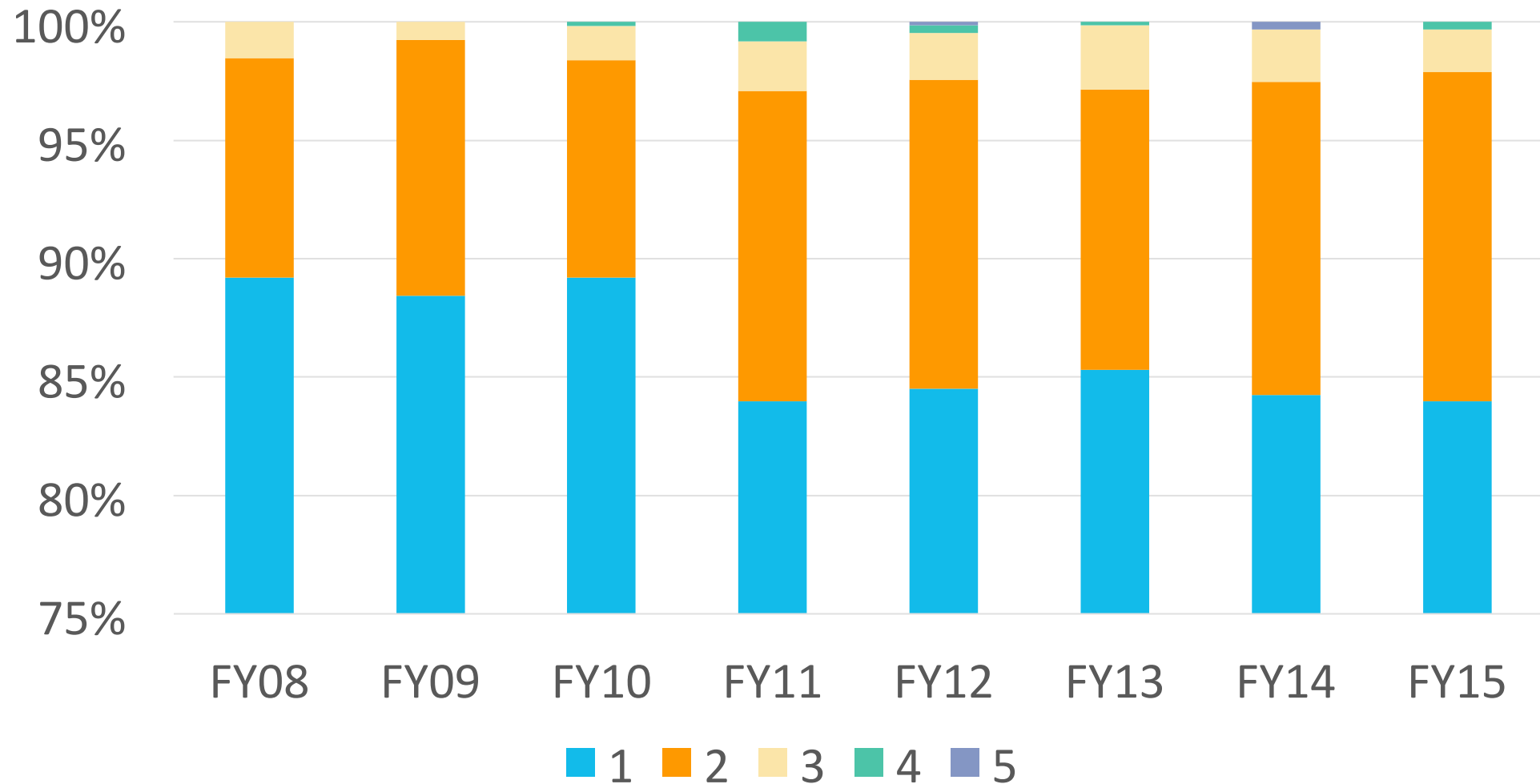
Rising Number of Individuals Submitting Proposals as PI – AAG



Number of Submissions per PI - AAG



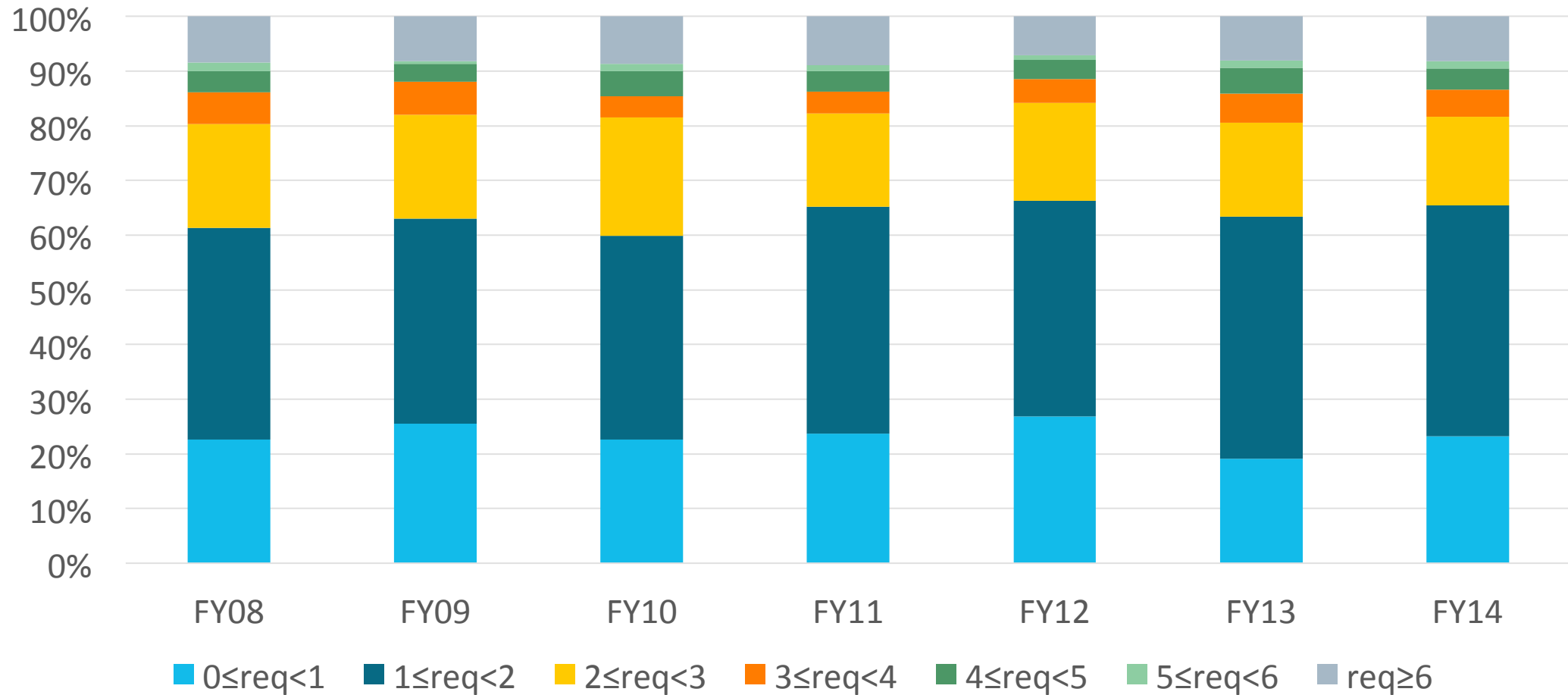
Number of Submissions per PI – AAG (Zoom)





AAG Salary Request Statistics

Months of Salary Requested Per Year – AAG

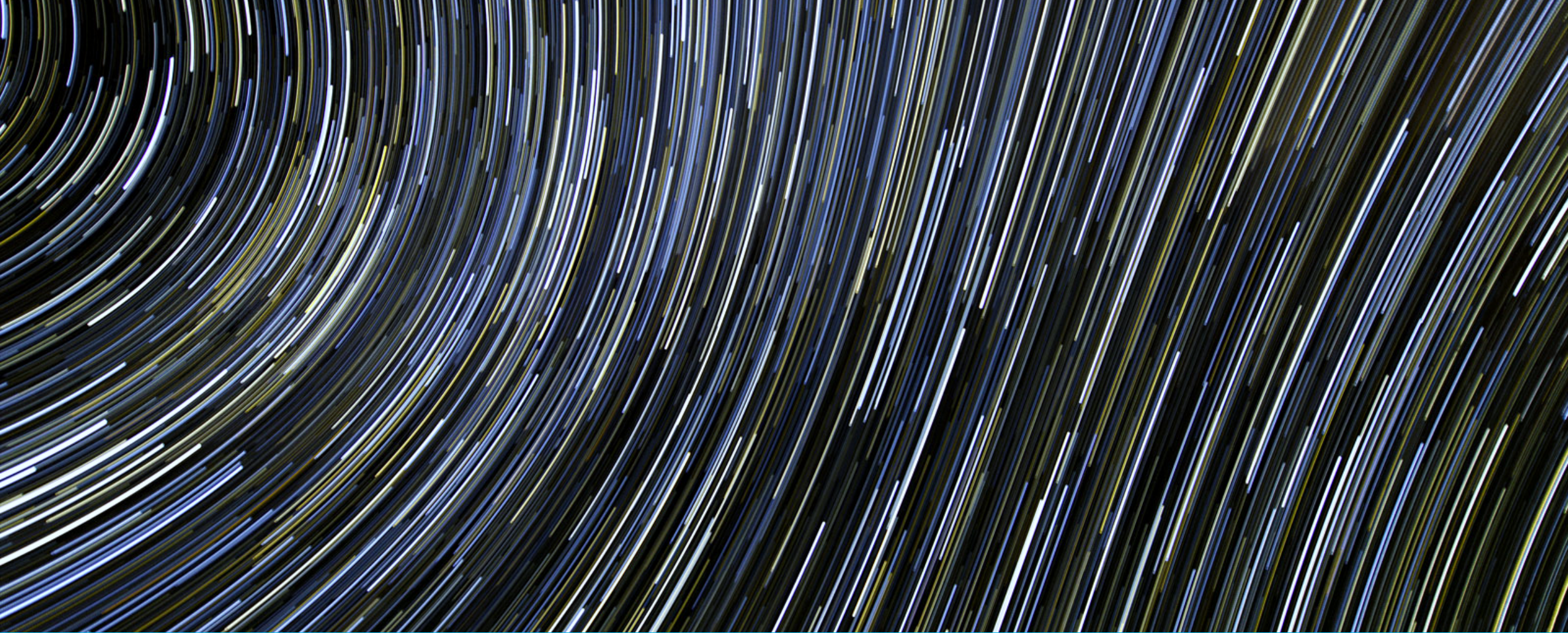




Summary

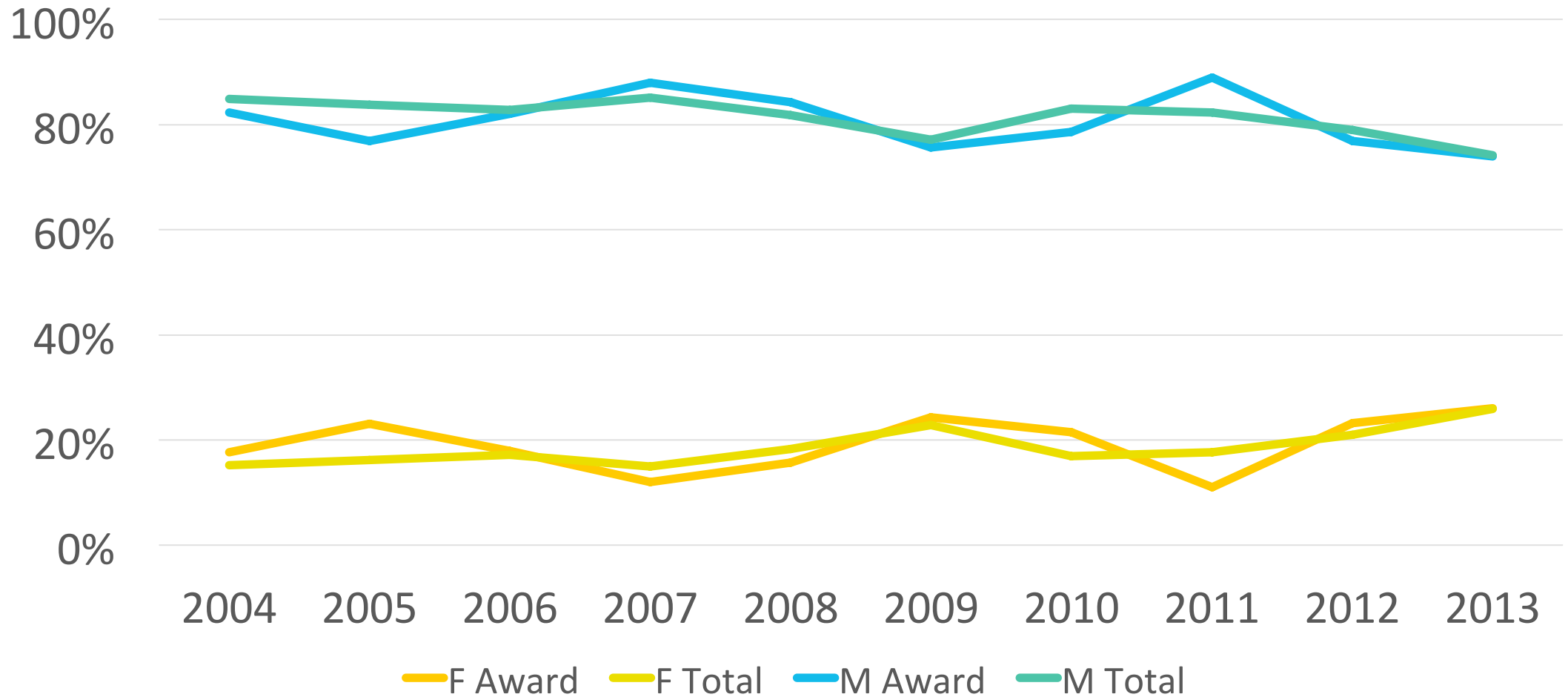
Summary

- (1) Distribution of funding requests among budget categories has remained flat over 10 yr.
- (2) Fraction of AAG proposals from those > 25 yr post-PhD has increased from 25% to 29% from FY08 to FY15.
- (3) Fraction of AAG proposals that are multiple proposals from same PI ($N > 1$) has risen from 11% (FY08) to 16% (FY15).
- (4) Fraction of AAG proposals that request less than 3 months of salary per year has remained approximately flat (80-85%) between FY08 and FY15.
- (5) Funding rate for women remains approximately equal to submission rate.
- (6) Funding rate for first-time proposers is slightly lower than their representation in the submission pool (unsurprisingly).
- (7) Increase in proposal numbers from FY08 to FY15 is largely accounted for by submissions from more individual PIs in a given year, but the number of AAG PIs in a given year still is no more than ~15% of the number of full members of the AAS. (roughly 650 over 4500 at current epoch.)
- (8) In the absence of facility divestment, and with continued increased demand, we project the AAG success rate to decrease from ~15% (FY15) to 9.85% (FY19). Full facility divestment holds the rate at ~15%.

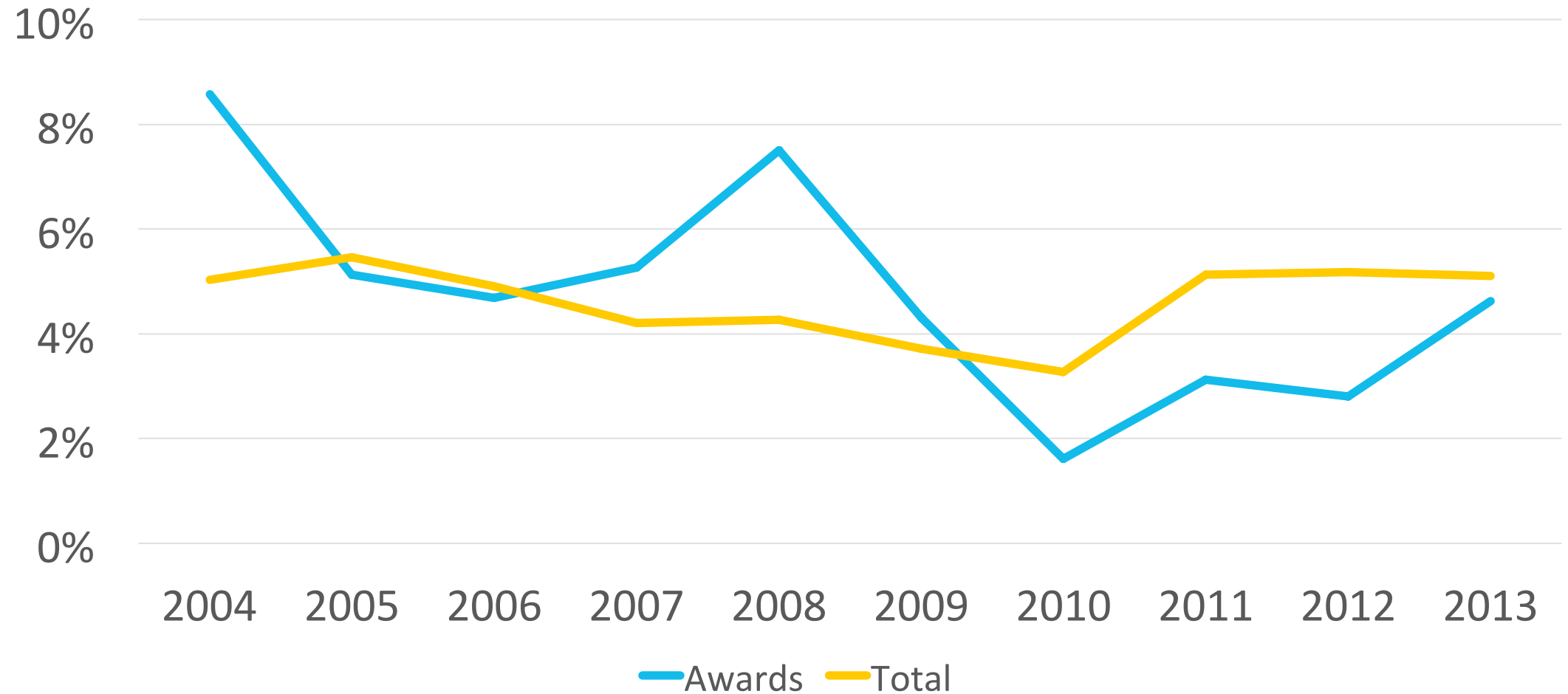


AAG Proposal, Reviewer, Demographic Statistics

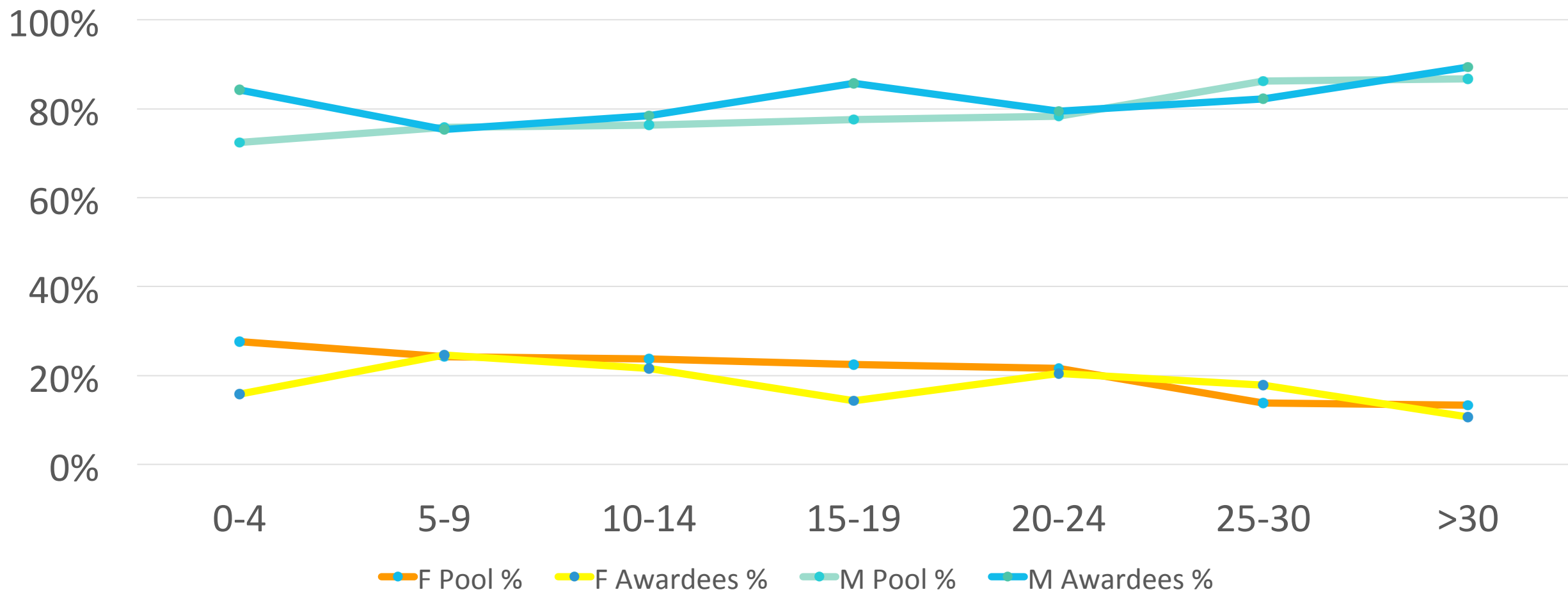
PI Gender Statistics - AAG



PI URM Statistics - AAG



Success Rates as a Function of Gender and Post-PhD Years – AAG FY11-14





AAG Proposal, Reviewer, and Award Geographical Statistics

